

GEOCAP - Case-Control Study Based on Childhood Cancer Geolocalisation

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General	
Identification	
Detailed name	Case-Control Study Based on Childhood Cancer Geolocalisation
Sign or acronym	GEOCAP
CNIL registration number, number and date of CPP agreement, AFSSAPS (French Health Products Safety Agency) authorisation	N°CNIL: 998198, 900183
General Aspects	
Medical area	Cancer research Hematology Immunology Pediatrics
Study in connection with Covid-19	No
Health determinants	Geography Pollution Social and psychosocial factors Others (specify)
Others (details)	Cancer, brain tumour, leukaemia
Keywords	Environmental exposure, risk, incidence, child
Scientific investigator(s) (Contact)	
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Organization	INSERM
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Unit	UMR-S 1153, CRESS, Team 7 / Epidemiology of childhood and adolescent cancers
Organization	INSERM
Collaborations	
Participation in projects, networks and consortia	Yes
Funding	
Funding status	Mixed
Details	- EDF- Fondation Pfizer- Institut national de Veille Sanitaire- Agence Nationale de la Recherche- Agence nationale de sécurité sanitaire de l'alimentation- Fondation ARC pour la recherche sur le cancer- Institut National Du Cancer
Governance of the database	
Sponsor(s) or organisation(s) responsible	Institut national de la santé et de la recherche médicale
Organisation status	Public
Presence of scientific or steering committees	No
Additional contact	
Main features	
Type of database	

Type of database	Study databases
Study databases (details)	Case control study
Database recruitment is carried out by an intermediary	A population file An administrative base or a register
Database recruitment is made on the basis of:	Another treatment or procedure
Database recruitment is carried out as part of an interventional study	No
Additional information regarding sample selection.	Includes all cancer cases for children under 15 years old who have been diagnosed with cancer or benign brain tumour since 2002, living in mainland France at the time of diagnosis. Includes all child case-controls under 15 years old from the general population, represented by a sample of 5,000 child addresses per year, created by INSEE on tax record database.
Database objective	
Main objective	To study the influence of several environmental exposures on the risk of childhood cancer - proximity to power lines and exposure to electric and magnetic fields at extremely low frequency - proximity to traffic lanes and environmental exposure to benzene and other pollutants - exposure to living spaces with natural ionising radiation, especially radon and gamma radiation - proximity to industrial sites
Inclusion criteria	- Men or women - under 15 years old
Population type	
Age	Newborns (birth to 28 days) Infant (28 days to 2 years) Early childhood (2 to 5 years) Childhood (6 to 13 years) Adolescence (13 to 18 years)
Population covered	General population
Pathology	
Gender	Male Woman

Geography area	National
Detail of the geography area	France
Data collection	
Dates	
Date of first collection (YYYY or MM/YYYY)	2002
Size of the database	
Size of the database (number of individuals)	Greater than 20 000 individuals
Details of the number of individuals	6700:- 1700 cancers (470 leucémies/leukemias)/cases- 5000 témoins/controls
Data	
Database activity	Current data collection
Type of data collected	Clinical data Biological data Administrative data
Clinical data (detail)	Direct physical measures
Biological data (detail)	DNA
Presence of a biobank	No
Health parameters studied	Health event/morbidity Others
Other (detail)	Radiation doses due to gaseous discharges from nuclear power plants: IRSN/DRPH/SER Data on natural ionising radiation sources: IRSN/PRP-DGE/SEDRAN/BRN Localisation of power lines: RTE
Procedures	
Data collection method	Data related to child exposure are estimated from their home address geocoded accurately.
Participant monitoring	No
Followed pathology	
Links to administrative sources	No

Promotion and access

Promotion

Link to the document	http://onlinelibrary.wiley.com/doi/10.1002/ijc.27425/pdf
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Link to the document	http://www.nature.com/bjc/journal/v108/n9/full/bjc2013128a.html?foxtrotcallback=true
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Link to the document	https://ehp.niehs.nih.gov/EHP296/
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Link to the document	http://onlinelibrary.wiley.com/doi/10.1111/ppe.12313/full
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Link to the document	https://academic.oup.com/aje/article/182/8/685/207208
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Link to the document	https://www.sciencedirect.com/science/article/pii/S0265931X17309980?via%3Dihub
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Access

Terms of data access (charter for data provision, format of data, availability delay)	To be defined
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Access to aggregated data	Access on specific project only
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Access to individual data	Access on specific project only
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